

The Intel® Pentium® 4 Processor

A Platform Perspective

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Download presentation from:
[http:// www.intel.com/pentium4](http://www.intel.com/pentium4)



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Advanced New Technology from Intel

Intel® Pentium® 4 Processor

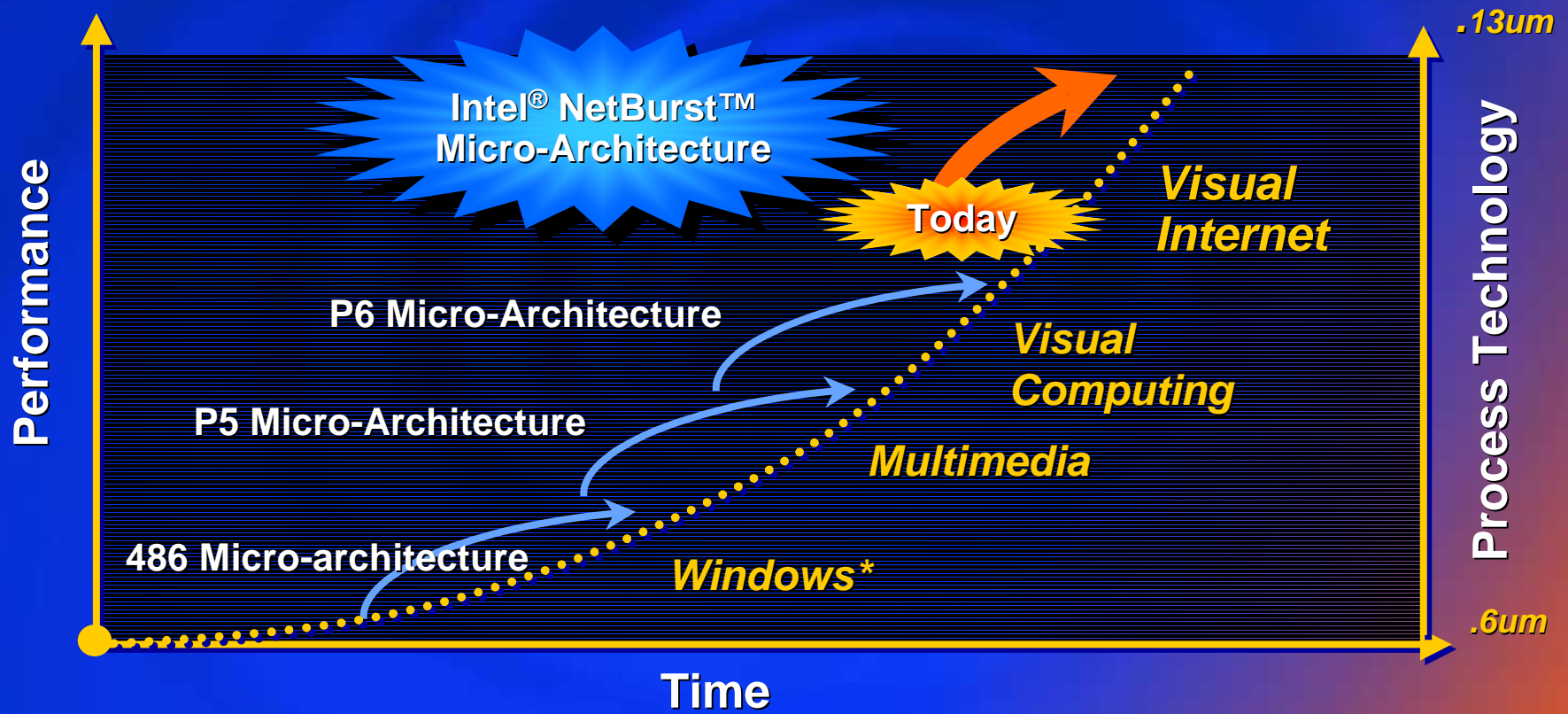


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Intel® Pentium® 4 Processor

Enabling New Capabilities



**Intel® NetBurst™ Micro-Architecture Designed
To Deliver Performance That Matters**



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Intel® Pentium® 4 Processor

Design Goals

- Designed for where the internet is going
 - World class performance for internet video and audio
- Performance headroom and scalability
 - Micro-architecture delivers performance and frequency scalability well into the future

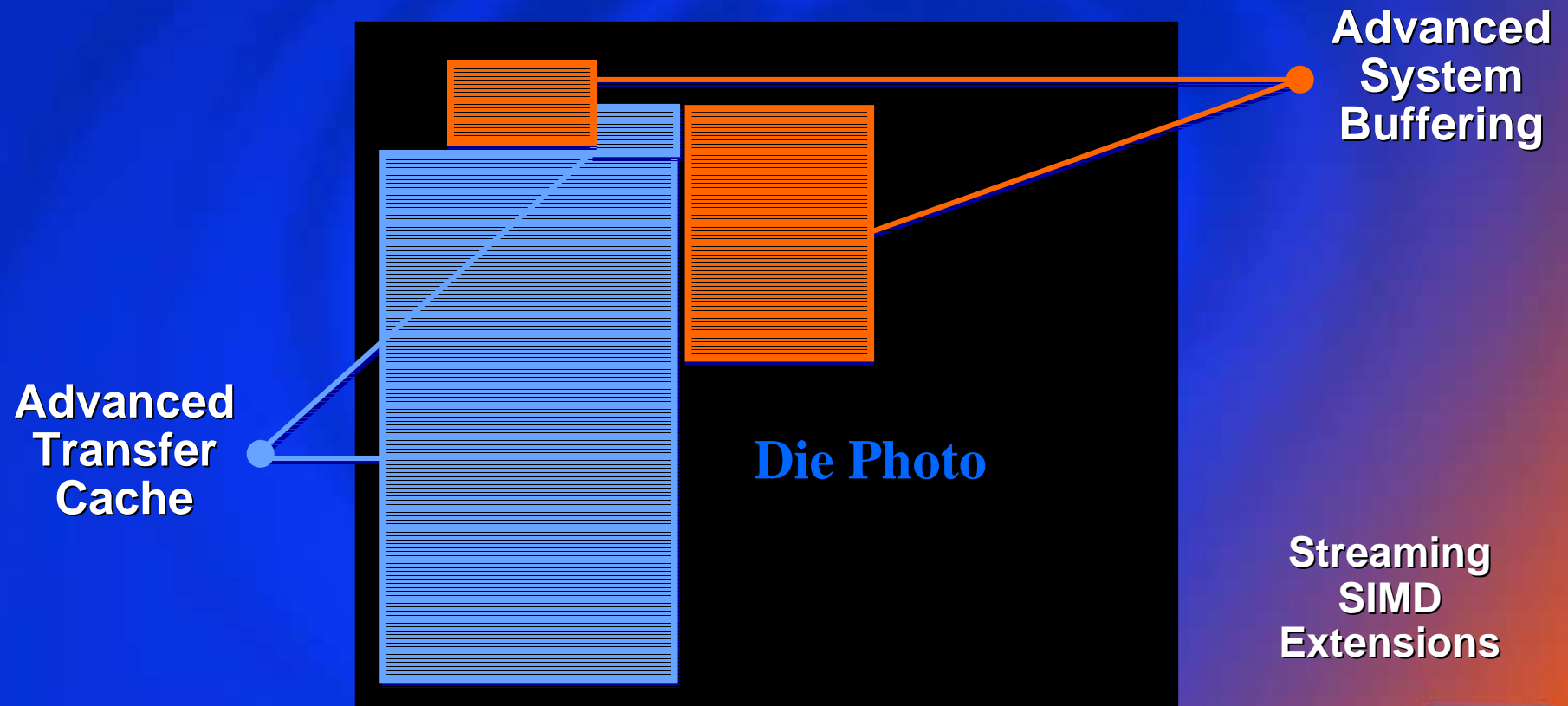
*Micro-Architecture Designed To Benefit From
Advancements In Silicon Technology*



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The Intel® Pentium® III Processor Family Brought Us...



133 MHz System bus

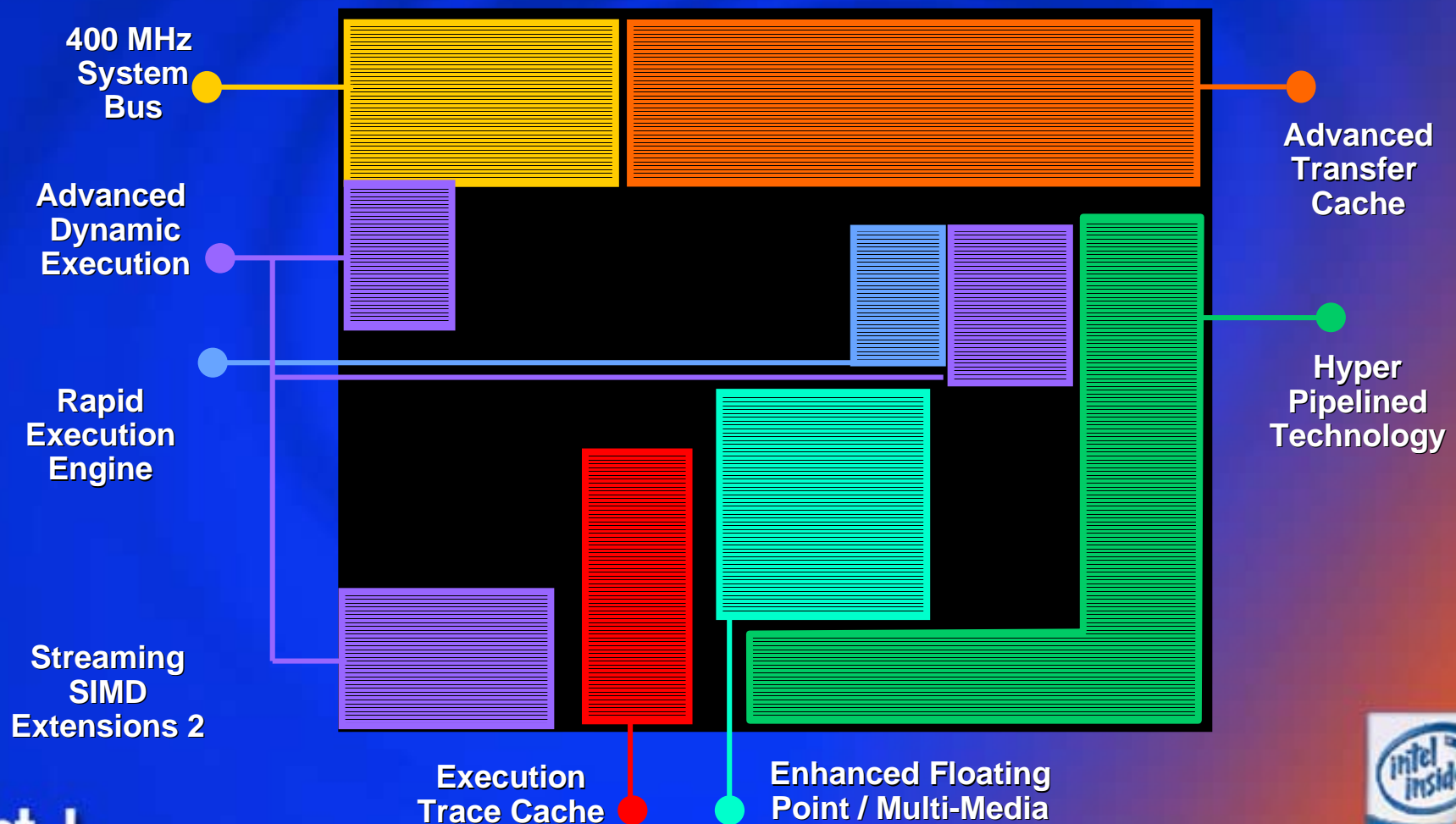


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The Intel® Pentium® 4 Processor Takes A Leap Forward, Delivering...

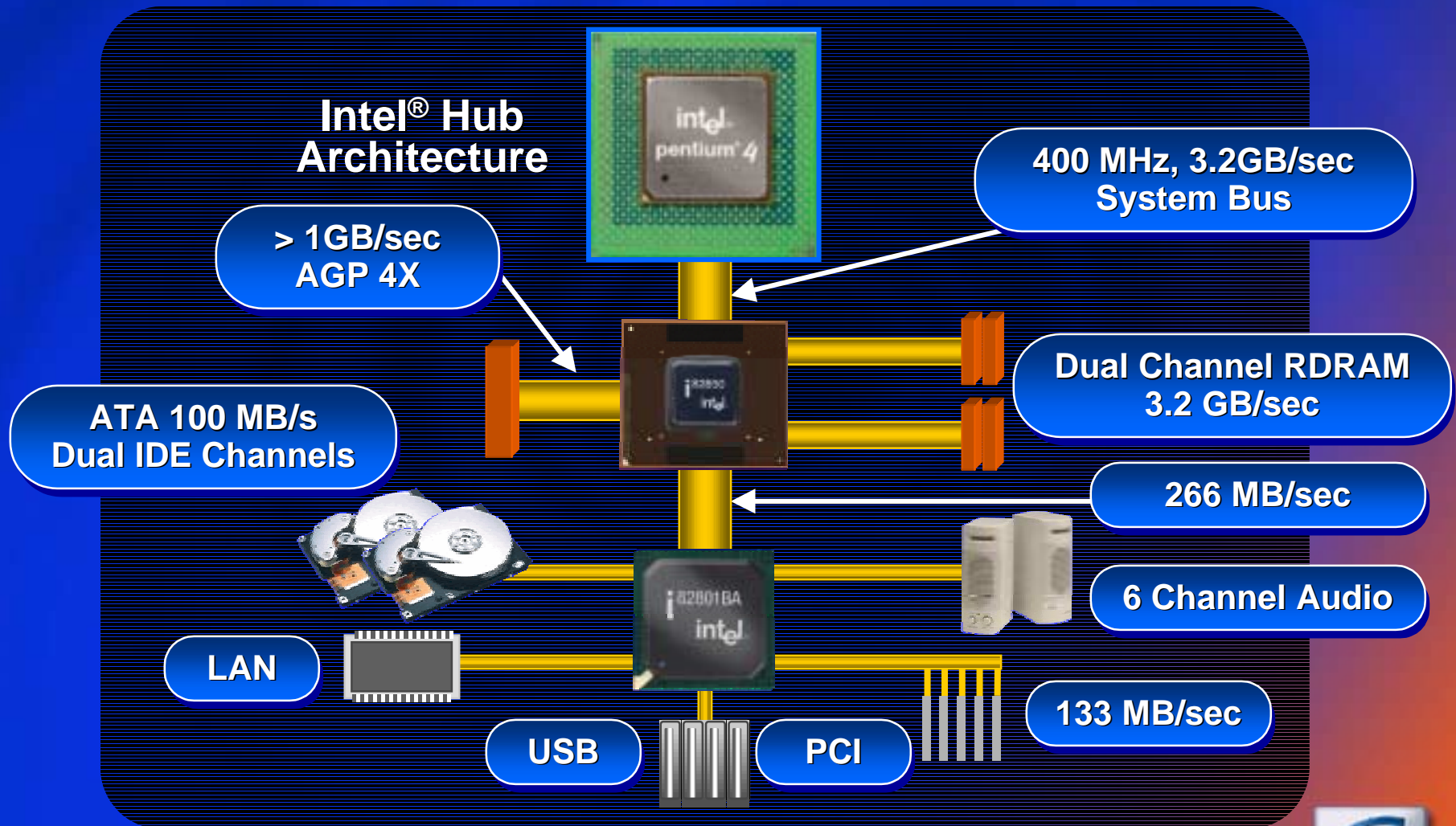
42 million transistors



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Intel® Pentium® 4 Processor Platform



Balanced System Performance



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Streaming SIMD Extension 2 (SSE2)

- SSE2 Extends MMX™ and SSE technology with the addition of 144 new instructions
 - 128-bit SIMD integer arithmetic
 - 128-bit SIMD double precision floating point
 - Cache and memory management operations

Delivers Performance Increases Across Broad Range of Applications



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Beyond the Silicon

- **System OS and Tools**

- Microsoft* Windows* 98, Windows* ME, Windows* 2000
- Intel® C/C++ compiler, debugger, assembler
- Microsoft* VC++ 6.0 SP5
- Direct X* 7b and 8.0
- Open GL1.2
- Vtune* Analyzer 4.5SP1
- Enabling Numerous Consumer and Business Software Applications

Broad Enabling Efforts To Ensure High Quality Software To Support The Pentium® 4 Processor Family



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Intel® Pentium® 4 Processor Platform Summary

- Advanced, new micro-architecture from Intel designed for the evolving Internet
- Intel® Hub Architecture achieves balanced platform performance
- Intel's highest performance desktop processor

Designed For Where The Internet Is Going



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